

Remote Operations Center Committee Meeting 5/26/05

Attendees:

FNAL: Erik Gottschalk, Elvin Harms, Shuichi Kunori, Kaori Maeshima, Patty McBride, Elliott McCrory, Suzanne Panacek, Marla Singleton, Jean Slaughter, Alvin Tollestrup

OTHER LOCATIONS: Al Thomas

Committee News – Erik Gottschalk

(<http://docdb.fnal.gov/CMS-public/DocDB/ShowDocument?docid=139>)

Erik: This meeting is being recorded. The recordings (video and audio) will be put in the Doc DB.

Several committee members have been participating in the Workshop on Accelerator Operations (<http://www-bd.fnal.gov/wao/>) hosted by Fermilab. A few of us who did not participate in the entire workshop went to a session on remote operations.

Here are a few comments based on my notes:

There were four presentations on Tuesday morning.

- 1) Subaru Telescope – remote operations necessary due to harsh environment at the site of the telescope (Mauna Kea)
- 2) Theragenics Corporation – 24/7 isotope production with remote operation
- 3) Remote Operations at RHIC– remote control for operators working from home

FNAL has established a protocol for changing certain types of accelerator parameters with appropriate privileges from home.

We can use the list of disadvantages (see slides) to bolster our case for a remote operations center.

Question: Is “working at home” and “working at other remote sites” in the scope of our charge?

Shuichi: yes, this should be included.

Patty: we don’t want to extend our charge too much.

Kaori: we should keep it in mind but not focus on that functionality.

Elvin: we have to respect CERN’s concern about this.

- 4) TTF VUV-FEL at DESY– remote users (mostly at home)

The same speaker who gave this talk also gave another talk (at Fermilab?), and emphasized that the audio part of a video conference was the most important aspect (compared to video).

Jean: There is an example of a joint beam study with Tanaji working with Brookhaven and using the electronic logbook as a chat room.

Elvin: Another group (??) working on remote operations has two psychologists on the team to address issues concerning sociology.

Communications aspects of remote operations are critical. Video conferencing must be reliable. Echo cancellation is needed.

Advisory Committee:

Jean: We should add Jim Patrick to the Advisory Committee.

Patty: And we should add Slawek Tkaczyk.

Schedule:

June 16 – A **very** preliminary requirements document will be emailed to the Advisory Committee to get some feedback. We should ask for explicit feedback from a few members of the Advisory Committee

July (late) – We should plan a video conference with members of the Advisory Committee to review the requirements document before giving the document to Pier Oddone.

Report from Accelerator Group – Suzanne Panacek

(<http://docdb.fnal.gov/CMS-public/DocDB/ShowDocument?docid=137>)

Review one of the scenarios:

Elliott's scenario – Injector Beam Maintenance (something that requires regularly scheduled maintenance)

We need to come up with a way for at least one other person to read each of the scenarios that we come up.

Elvin: Maybe the subgroups should review their own scenarios.

Elliott: One should consider instant messaging for communications in addition to the electronic logbook.

Jean: Would you be pinging the beam to perform the maintenance?

Elliott: Need to think about this.

Jean: We are talking about something that is actually controlling the beam by running the application.

Elvin: The scenario should be changed to be less invasive.

Elliott: Yes, that would be good idea.

Alvin: We are discussing something that will invite a violent reaction from CERN.
It would make more sense to do something like this for the detector.

Jean: You are certainly correct if you are doing something to the beam.
I could imagine CERN would want FNAL people to look at data to see what is happening with the beam.

Suzanne: If we just analyze data from the beam, you can do it from your office.

Jean: I think you want to be participating (by video?) as data is being recorded.

Patty: You can turn this scenario into two scenarios: One where you are following along what is being done at CERN, and a second one where you are doing some kind of calibration without beam manipulation.

Jean: Yes we already have that with the Schottky scenario.

Alvin: It would be better if this scenario is centered on something that LARP might provide. I think you can get everything you want in your scenarios without controlling the beam. Change this to something where you are doing the physics.

Shuichi: This is the same thing that we need for the detector.

Jean: Important to put something in a scenario where we work on something what was determined for the run plan for the day.

Alvin: We should find someone who remembers what was done on the ISR.

Jean: But things are so different now.

Al: But the kinds of problems that you have now are similar.

Jean: How about RHIC?

Alvin: Yes, RHIC is a good example.

Jean: There is a list of 30 things that Roger Bailey said they would want help on. This would be a good place to get ideas for scenarios.

Kaori: For the detector people are also very sensitive to controlling things.

Alvin: For the detector it's very different because you have built up a certain amount of trust.

Kaori: It's sensitivity to a different degree.

Conclusion: We need an approval mechanism for scenarios.

Report from Detector Group – Patty McBride

(<http://docdb.fnal.gov/CMS-public/DocDB/ShowDocument?docid=140>)

Patty: We have a revised and expanded list of actors and stakeholders.

Jean: There should also be an integration coordinator in the list.

Schedule:

Jan and Feb, 2006: slice test will have shifts

May, 2006: test beam will also have shifts

(showed a list of university groups)

This list shows that we have certain responsibility to enable people at home or other locations.

Patty: Were there people from all the institutions calling in?

Shuichi: Yes, we had a video connection for everybody.

Scenario:

Web camera is used to watch the detector, and another one was used for watching the data modules in HCAL testing. Camera could be controlled remotely, or an operator at CERN can move it for you. Default state should not be aimed at people, but should be aimed at a module.

Jean: If you are taking shifts, does that mean you are actually starting and stopping calibration runs from here?

Shuichi: No, not for this scenario.

Jean: Then there is someone at CERN 24 hours a day.

Shuichi: They take the data, we make sure the data is ok and then make it available.

Next meeting: June 2, 2005 in the **Race Track (WH 7X)**
